

TEXT – Prentice Hall Conceptual Physics - Chapters 23, 24, 25, 26

Due 2/21/2020

1. **WRITE YOUR NAME**, first and last name, on top of this cover sheet.
2. **COMPLETE ALL THE WORK** as assigned.
3. **BOTH THE STUDENT AND A PARENT MUST SIGN** here before turning in.
4. **COVER SHEET**: Put this cover sheet on top of the work when you turn it in.
5. **THE EXPECTATION IS THAT**: You will turn in your work **in the order shown below**.
6. **TURN IN THIS WORK ON TIME** to your supervising teacher.
7. **Students must submit at least two lab works/report for Month 6.**

**Student Signature****Date****Parent Signature****Date***I have completed the monthly work as required.**I have checked my student's work to ensure it is complete.***Chapter 23 – Change of Phase**

- 1) Define: boiling, condensation, equilibrium, evaporation, freezing, phase, regelation, relative humidity, saturated.
- 2) Review Questions - #2 (2<sup>nd</sup> part), 3, 4 (2<sup>nd</sup> part), 5, 11, 14, 17, 18, 19, 20
- 3) Think and Explain - #27, 28, 29, 31, 34 **20%**

**Chapter 24 – Thermodynamics**

- 4) Define: absolute zero, entropy, first law of thermodynamics, heat engine, second law of thermodynamics, thermodynamics.
- 5) Review Questions - #1-5, 11-13, 15, 19-25    6) Think and Explain - #31, 33, 36-38 **20%**

**Chapter 25 – Vibrations and Waves**

- 7) Define: amplitude, constructive interference, crest, destructive interference, Doppler effect, frequency, hertz, longitudinal wave, node, period, red shift, shock wave, simple harmonic motion, sonic boom, standing wave, transverse wave, trough, vibration, wave, wavelength
- 8) Chapter Review - #2-4, 6-9, 11, 13-16, 19
- 9) Plug and Chug - #21, 24-25
- 10) Think and Explain - #26, 27, 29, 31, 35 **20%**

**Chapter 26 – Sound**

- 11) Define: beats, compression, forced vibration, infrasonic, natural frequency, pitch, rarefaction, resonance, ultrasonic
- 12) Chapter Review - # 1-3, 5b., 6-12, 14-16, 19, 20
- 13) Think and Explain - #21, 24, 28 **20%**

1/30/2020– Change of phase/Thermodynamics Notes plus MEA Science Fair Visit

2/6/2020 – Waves Demonstrations and Notes

2/13/2020 – Sound Facts and Notes **20%**